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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of

JOEL B. SHUFELDT

Serial No. 10/805,156

Filed March 19, 2004

For VORTEX BLOWER HAVING
HELMHOLTZ RESONATORS
AND A BAFFLE ASSEMBLY

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June, 2004
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Debbie Tingler
Debbie Tingler, Sec'y to Andrew B. Morton

TRANSMITTAL SHEET

Enclosed are the following documents:

Information Disclosure Statement (*w/attached Certificate of Mailing*)

Form PTO-1449
Fourteen (14) dkt
Thirteen (13) Articles

Return Receipt Postcard

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 18-0987. If a withdrawal is required from Deposit Account No. 18-0987, the undersigned attorney respectfully requests that the Commissioner of Patents and Trademarks cite Attorney Docket Number 4570.91 for billing purposes.

Respectfully submitted,

Ray L. Weber, Reg. No. 26,519
Andrew B. Morton, Reg. No. 37,400
Renner, Kenner, Greive, Bobak,
Taylor & Weber
First National Tower, Fourth Floor
Akron, Ohio 44308-1456
Telephone: (330) 376-1242

Attorney Docket No: 4570.91



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INFORMATION DISCLOSURE STATEMENT

37 CFR §§1.97, 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.97, relating to the filing of an Information Disclosure Statement, the Applicant hereby submits the following in compliance with the duty of disclosure as set forth in 37 CFR §1.56.

Information or art known to the Applicant and having an extent of relevance to the present application has been listed on PTO Form 1449 attached hereto. It includes Eighty-One (81) United States patents and Thirteen (13) articles. The Applicant has employed PTO Form 1449 for the purposes of convenience of the Office and the Examiner.

No representation is made that the information is non-cumulative, or that the information represents the only or the best information. The Applicant does not admit that any of the information he has provided is necessarily prior to his invention but rather that it is information of which he is aware and that he believes should be provided to the Office in fulfillment of their duty of disclosure.

It should be evident that none of the art provided herein accomplishes the objects of the present invention. The Applicant believes that the claims of the subject application are patentably distinct over the art of record. In the event the Examiner would care to discuss any of the disclosed art more specifically, the undersigned attorney would welcome a telephone call.

Respectfully submitted,



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Andrew B. Morton, Reg. No. 37,400
Renner, Kenner, Grieve, Bobak,
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Attorney Docket No: 4570.91

JUN 14 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 7

Complete if Known

Application Number	10/805,156
Filing Date	03/19/2004
First Named Inventor	JOEL B. SHUFELDT
Art Unit	3745
Examiner Name	
Attorney Docket Number	4570.91

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 353,994	12-07-1886	WALKER ET AL.
		US- 1,502,903	07-29-1924	CAMPBELL
		US- 1,868,008	07-19-1932	GARDNER
		US- 1,893,184	01-03-1933	SMELLIE
		US- 1,983,606	12-11-1934	GEISE
		US- 2,097,205	10-26-1937	CARY ET AL.
		US- 2,098,640	11-09-1937	CARY
		US- 2,171,341	08-29-1939	MCMAHAN
		US- 2,225,398	12-17-1940	HAMBLIN
		US- 2,951,632	09-06-1960	HANSON
		US- 3,006,603	10-31-1961	CARUSO ET AL.
		US- 3,058,528	10-16-1962	HIERSCH
		US- 3,398,866	08-27-1968	FLAME ET AL.
		US- 3,844,674	10-29-1974	MORIYAMA
		US- 3,849,024	11-19-1974	MASAI ET AL.
		US- 3,899,266	08-12-1975	MASAI ET AL.
		US- 3,942,906	03-09-1976	SCHONWALD
		US- 3,951,567	04-20-1976	ROHS
		US- 3,973,865	08-10-1976	MUGELE

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature _____ Date Considered _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet **2**of **7**

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		Number-Kind Code ² (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 3,982,848	09-28-1976	SCHONWALD ET AL.
		US- 4,006,998	02-08-1977	SCHONWALD
		US- 4,141,674	02-27-1979	SCHONWALD
		US- 4,172,678	10-30-1979	SCHONWALD ET AL.
		US- 4,174,020	11-13-1979	CHALLIS
		US- 4,194,798	03-25-1980	SCHONWALD ET AL.
		US- 4,204,800	05-27-1980	BENTELE ET AL.
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		US- 4,247,246	11-27-1981	ABE ET AL.
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		US- 4,321,008	03-23-1982	MCCOY
		US- 4,325,672	04-20-1982	SIXSMITH ET AL.
		US- 4,376,613	03-15-1983	SCHOENWALD
		US- 4,412,781	11-01-1983	ABE ET AL.
		US- 4,456,423	06-26-1984	MITTMANN
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		US- 4,932,833	06-12-1990	WIEJA ET AL.

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		Number-Kind Code ² (if known)			
		US- 4,932,834	06-12-1990	GALTZ ET AL.	
		US- 4,944,310	07-31-1990	SULLIVAN	
		US- 4,992,021	02-12-1991	LANGEN ET AL.	
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		US- 5,000,660	03-19-1991	VAN HOUTEN ET AL.	
		US- 5,040,943	08-20-1991	DWYER ET AL.	
		US- 5,120,193	06-09-1992	KADLE ET AL.	
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		US- 5,527,149	06-18-1996	MOSS ET AL.	
		US- 5,527,150	06-18-1996	WINDHOFFER	
		US- 5,536,139	07-16-1996	YAMAZAKI ET AL.	

FOREIGN PATENT DOCUMENTS

Examiner Signature _____ **Date Considered** _____

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Sheet 4 of 17

Application Number	10/805,156
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Art Unit	3745
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Attorney Docket Number	4570.91

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		US- 5,569,023	10-29-1996	ISHIDA ET AL.	
		US- 5,658,126	08-19-1997	WERNER ET AL.	
		US- 5,697,152	12-16-1997	YAMAZAKI ET AL.	
		US- 5,718,561	02-17-1998	FISCHER	
		US- 5,791,870	08-11-1998	ALEXANDER	
		US- 5,964,573	10-12-1999	FISCHER	
		US- 5,987,729	11-23-1999	MORAN	
		US- 6,019,571	01-01-2000	FISCHER	
		US- 6,039,532	03-21-2000	MCCONNELL	
		US- 6,142,728	11-07-2000	HUMBURG ET AL.	
		US- 6,146,092	11-14-2000	BOTROS ET AL.	
		US- 3,437,173	04-08-1969	EHRICH	
		US- 3,819,007	06-25-1974	WIRT ET AL.	
		US- 3,819,009	06-25-1974	MOTSINGER	
		US- 3,820,628	06-28-1974	HANSON	
		US- 4,001,473	01-04-1977	COOK	
		US- 4,100,993	07-18-1978	FEDER	
		US- 4,135,603	01-23-1979	DEAN, III ET AL.	
		US- 4,150,732	04-24-1979	HOCH ET AL.	

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 7

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Application Number	10/805,156
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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7

Complete if Known

Application Number 10/805,156

Filing Date 03/19/2004

First Named Inventor JOEL B. SHUFELDT

Art Unit 3745

Examiner Name

Attorney Docket Number 4570.91

Sheet	6	of	7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A	LORI A. BRADY, "Application of the Herschel-Quincke Tube Concept to Higher-Order Acoustic Modes in Two-Dimensional Ducts", March 1, 2002,	
	B	G.M. DIEHL, "Think Quiet", Compressed Air, 1971, pp. 1-34	
	C	JOHAN LILJENCRAANTS, "Working of Acoustic Resonators", Mechanical Music Digest, June 23, 2001, pp.1-2	
	D	LARRY HANSON, "Hybrid Circuit Technology", November, 1984, Lake Publishing Corp.	
	E	AHMET SELAMET, "New Tool Helps Automakers Silence Irritating Noise", http://researchnews.osu.edu/archive/whistle.htm , April 1, 2002	
	F	"Effectiveness of Adjacent Reactive Absorbers" , March 27, 2000; http://www.deicon.com/technote/adjacent_resonators_deicon.pdf	
	G	Y.P. SOH, E.W.T. YAP and B.H.L. GAN, "Industrial Resonator Muffler Design", 2001; http://www.mecheng.adelaide.edu.au/courses/undergrad/projects/level4papers2001/soh_yap_gan.pdf	
	H	J.W. MOONEY, "Helmholtz Resonator Sound Absorbers", April 2000; http://www.jwmooney.com/wcpub/page45.html	
	I	"Helmholtz Resonance" 2000, Modified on 6/19/03 by Joe Wolfe BSc Qld, BA UNSW, PhD ANU. University of New South Wales Sydney, Australia, http://www.phys.unsw.edu.au/jw/Helmholtz.html	
	J	Fuji Ring Compressors" Published in 1996 in the Fuji Blowers product catalog by Fuji Electric Company. Web page address for updated catalog: http://www.airpowerproducts.com/fuji/index.shtml#operation	

Examiner Signature	Date Considered	

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	K	"Noise Control, Sound Behavior", November 1991, National Occupational Health and Safety Commission (NOHSC) Australian Government, http://www.nohsc.gov.au/OUSInformation/OHSSolutions/noise/SOUNDA.HTM		
	L	"Sound Cell", 2002 Proudfoot Company website catalog, http://www.soundblox.com/scell.htm		
	M	JOHN S. LAMANCUSA, "Fan Noise Prediction" 7/12/200, "Fan Noise", http://www.me.psu.edu/lamancusa/me458/11_fan.pdf		
	N	THOMAS B. GREENSDALE JR., "Helmholtz Resonator", 1966; http://physics.kenyon.edu/EarlyApparatus/Rudolf_Koenig_Apparatus/Helmholtz_Resonator		
	F			

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including the gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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